

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of illuminating an environment, comprising:
providing a lighting control signal for controlling a ~~lighting system that has~~ at least one light of a plurality of lights disposed in a plurality of positions within the environment;
providing a control system for generating the lighting control signal;
providing a connector between the control system and the ~~plurality of lights~~ at least one light to provide a two-way data interface between the ~~lights~~ at least one light and the control system, ~~wherein the connector is a cable extending between the control system and the plurality of lights, the cable having a head end and a base end; and~~
providing an address of the connector, ~~wherein a;~~ and
addressing the lighting control signal to the connector as an addressed lighting control signal, wherein the at least one light, when connected to the addressed connector, responds to ~~[[an]] the addressed lighting control signal that is addressed to that connector, and wherein the~~ addressed lighting control signal is based at least in part on data communicated from the at least one light to the control system over the two-way data interface provided by the connector.
2. (Currently Amended) A method of claim 1, wherein the connector includes a cable having a head end and a base end, wherein the base end is coupled to the control system, and wherein providing the address of the connector comprises providing the an address facility at the head end of the cable.
3. (Currently Amended) A method of claim 1, wherein the at least one light includes a modular light system, wherein the connector is configured to receive a facilitate a plugging and unplugging of the modular light system respectively into and from the connector, and wherein the modular light system, when plugged into the connector, responds to the addressed lighting control signals addressed to the address of the connector to which the light system is connected.
4. (Currently Amended) A method of claim 1, wherein the at least one light system communicates failure data ~~for the lights~~ to the control system via the two-way data interface ~~between the lights and the control system.~~

5. (Currently Amended) A method of claim 1, wherein the ~~control system communicates data with the light system and the~~ data is selected from the group consisting of control data, temperature data, performance data, performance history data, light histogram data, intensity data, color temperature data, on-off status data, color data, time data, total-on-time data, light show data, lighting effect data, alarm data, maintenance data, power-usage data, system status data, customer-entered data, advertising data, branding data, communications data and thermal history data.

6. (Original) A method of claim 1, wherein the environment is a transportation environment.

7. (Currently Amended) A method of claim 6, wherein the environment is an aircraft cabin, further comprising providing an interface ~~[[of]]~~ between the ~~lighting~~ control system ~~[[to]]~~ and another ~~computer~~ system.

8. (Currently Amended) A method of claim 7, further comprising:
providing a facility for shielding an element of the ~~lighting~~ control system to minimize emission of interfering signals.

9. (Currently Amended) A method of claim 7, wherein the other ~~computer~~ system is at least one of a steering system, a navigation system, a safety system, a sensor system, an alarm system, a maintenance system, a communications system ~~[[or]]~~ and an entertainment system.

10. (Currently Amended) A method of claim 1, wherein the environment contains a plurality of seats, wherein the ~~light systems~~ plurality of lights are disposed to illuminate the environments of the seats.

11. (Currently Amended) A method of claim 1, wherein the environment contains a corridor, wherein the ~~light systems~~ plurality of lights are disposed to illuminate at least one of the ceiling and the floor of the corridor.

12. (Currently Amended) A method of claim 1, further comprising:
controlling ~~a plurality of lights using the control system~~ the at least one light based on the addressed lighting control signal so as to provide illumination of more than one color; wherein one available color of light is including at least one of white light and another available color is non-white light.
13. (Currently Amended) A method of claim 12, wherein the at least one light includes red, green and blue light sources, wherein the illumination includes the white light, and wherein the white light is generated produced by a combination of radiation generated by the red, green and blue light sources.
14. (Currently Amended) A method of claim 12, wherein the at least one light includes a white light source, wherein the illumination includes the white light, and wherein the white light is generated at least in part by [[a]] the white light source.
15. (Currently Amended) A method of claim 14, wherein the at least one light includes a second light source, and wherein a color temperature of the white light can be modified is determined by mixing light from a radiation generated by the white light source and the second light source.
16. (Currently Amended) A method of claim 15, wherein the second light source is ~~a light source~~ selected from the group consisting of a second white light source of a different color temperature than the first white light source, an amber source, a green source, a red source, a yellow source, an orange source, a blue source, and a UV source.
17. (Currently Amended) A method of claim 12, wherein the ~~lights comprise~~ at least one light comprises LEDs of red, green, blue and white colors.
18. (Currently Amended) A method of claim 12, wherein the ~~lights comprise~~ at least one light comprises LEDs selected from the group consisting of red, green, blue, UV, amber, orange and white LEDs.

19. (Currently Amended) A method of claim 18, wherein the white LEDs include white LEDs of more than one color temperature.
20. (Currently Amended) A method of claim 12, further comprising providing a ~~secondary system for operating on the light output of the light system~~ the data from the at least one light via onboard intelligence included in the at least one light.
21. (Currently Amended) A method of claim 20, wherein ~~the secondary system is selected from the group comprising an optic, a phosphor, a lens, a filter, fresnel lens, a mirror, and a reflective coating~~ the data provided by the onboard intelligence indicates at least a partial or imminent failure of the at least one light.
22. (Currently Amended) A method of ~~illuminating an environment~~, comprising:
providing a ~~lighting control system; and~~
controlling a ~~plurality of lights using the~~ at least one light via a lighting control system signal to provide illumination of more than one color; wherein one available color of light is including at least one of a white light color and another available color is a non-white light color, the at least one light comprising at least one first LED configured to generate first radiation and at least one second LED configured to generate second radiation different from the first radiation; and
generating the lighting control signal based at least in part on data provided by the at least one light,
wherein the non-white color or a color temperature of at least some the white light is modified color is determined by mixing light from a white source of light of a different color temperature particular amounts of the first radiation and the second radiation in response to the lighting control signal.
23. (Currently Amended) A method of claim 22, wherein the at least one light includes red, green and blue LEDs, wherein the illumination includes the white color, and wherein the white

light color is ~~generated~~ produced by a combination of radiation generated by the red, green and blue light sources LEDs.

24. (Currently Amended) A method of claim 22, wherein the at least one first LED includes at least one white LED, wherein the illumination includes the white color, and wherein the white light color is generated at least in part by the at least one white light source LED.

25. (Currently Amended) A method of claim 24, wherein the at least one second LED includes at least one non-white LED, and wherein the color temperature of at least some the white light color is modified determined by mixing light from a second light source the first radiation and the second radiation.

26. (Currently Amended) A method of claim 25, wherein the at least one second light source LED is a light source selected from the group consisting of an amber source, a green source, a red source, a yellow source, an orange source, a blue source, and a UV source.

27. (Currently Amended) A method of claim ~~[[22]]~~ 24, wherein ~~the lights comprise LEDs of red, green, blue and white colors~~ at least one second LED includes at least one second white LED having a color temperature different the at least one first white LED.

28. (Currently Amended) A method of claim 22, wherein ~~the lights comprise LEDs selected from the group consisting of red, green, blue, UV, amber, orange and white~~ data provided by the at least one light is selected from the group consisting of control data, temperature data, performance data, performance history data, light histogram data, intensity data, color temperature data, on-off status data, color data, time data, total-on-time data, light show data, lighting effect data, alarm data, maintenance data, power-usage data, system status data, customer-entered data, advertising data, branding data, communications data and thermal history data.

29. (Currently Amended) A method of claim ~~[[28]]~~ 22, wherein ~~the white LEDs include LEDs of more than one color temperature generating the lighting control signal~~ comprises

generating an addressed lighting control signal that is addressed to a connector to which the at least one light is coupled, the connector having an address associated therewith.

30. (Currently Amended) A method of claim 22, further comprising providing a ~~secondary system for operating on the light output of the light system~~ the data from the at least one light via onboard intelligence included in the at least one light.

31. (Currently Amended) A method of claim 30, wherein ~~the secondary system is selected from the group comprising an optic, a phosphor, a lens, a filter, fresnel lens, a mirror, and a reflective coating~~ the data provided by the onboard intelligence indicates at least a partial or imminent failure of the at least one light.

32. (Currently Amended) A method of lighting an aircraft environment, comprising:
providing ~~[[a]] lighting control signal~~ signals for controlling ~~a lighting system that has a plurality of lights disposed in a plurality of positions within the aircraft environment, the plurality of lights comprising LEDs selected from the group consisting of red, green, blue, amber, UV, orange and white LEDs;~~

providing a control system for generating ~~[[a]] the lighting control signal~~ signals;

providing ~~a connector~~ connectors between the control system and ~~[[a]] the plurality of~~ [[the]] lights, the connectors having address facilities proximal lights of the plurality of lights associated therewith;

~~providing an address of the connector, wherein a;~~

addressing a lighting control signal to a connector associated with at least one light, the control signal provided as an addressed lighting control signal, wherein the at least one light, when connected to the addressed connector, responds to ~~[[an]] the addressed lighting control signal that is addressed to that connector;~~ wherein the lights comprises LEDs selected from the group consisting of red, green, blue, amber, UV, orange and white LEDs; and

configuring the control system to respond to signals from at least one other system of the aircraft environment and to generate the addressed lighting control signals signal in response to the signals from the at least one other system of the aircraft environment and/or data supplied by the at least one light.

33. (Currently Amended) A method of claim 32, wherein the other system of the aircraft environment includes an environmental system, and wherein the control system has an interface to ~~[[an]]~~ the environmental system of the aircraft.

34. (Previously presented) A method of claim 32, wherein the at least one other system is selected from the group including a navigation system, a safety system, an alarm system, a maintenance system, a communications system and an entertainment system.

35. (Currently Amended) A method of claim ~~[[33]]~~ 32, wherein the at least one light is disposed on ~~an aircraft environment selected from the group consisting~~ at least one of ~~[[the]]~~ an exterior, ~~[[the]]~~ a cabin interior, a ceiling, a floor, a cockpit, a bathroom, a kitchen, a corridor, an aisle, and a seat of the aircraft environment.

36. (Currently Amended) A method of claim 33, ~~further comprising providing a facility for providing lighting control using more than one~~ wherein the environmental system includes a plurality of environmental systems, and wherein configuring the control system to respond to signals from at least one other system of the aircraft environment includes configuring the control system to respond to signals from the plurality of environmental systems.

37. (Currently Amended) A method of claim 36, further comprising ~~providing a facility for:~~ prioritizing lighting commands the signals from different ~~lighting system control elements~~ environmental systems of the plurality of environmental systems; and generating the addressed lighting control signal in response to the prioritized signals.

38. (Currently Amended) A system ~~for illuminating an environment~~, comprising:
a control system configured to generate a lighting control signal for controlling a lighting system that has at least one light a plurality of lights disposed in a plurality of positions within the environment; and
a control system for generating the lighting control signal;

a connector between the control system and the ~~plurality of lights~~ at least one light to provide a two-way data interface between the ~~lights~~ at least one light and the control system, ~~the connector having an address associated therewith wherein the connector is a cable extending between the control system and the plurality of lights, the cable having a head end and a base end; and an address facility of a connector,~~

wherein ~~[[a]]~~ the lighting control signal is an addressed lighting control signal that is addressed to the connector, wherein the at least one light, when connected to the addressed connector, responds to [[an]] the addressed lighting control signal that is addressed to that connector, and wherein the addressed lighting control signal is based at least in part on data communicated from the at least one light to the control system over the two-way data interface provided by the connector.

39. (Currently Amended) A system of claim 38, ~~wherein the connector comprises a cable having a head end and a base end, wherein the base end is coupled to the control system, and wherein the connector further comprises an address facility [[is]] at the head end of the cable to set the address associated with the connector.~~

40. (Currently Amended) A system of claim 38, ~~further comprising the at least one light, wherein the at least one light includes a modular light system, wherein the connector is configured to receive a facilitate a plugging and unplugging of the modular light system respectively into and from the connector, and wherein the modular light system, when plugged into the connector, responds to the addressed lighting control signals addressed to the address of the connector to which the light system is connected.~~

41. (Currently Amended) A system of claim 38, ~~wherein the light system communicates data includes failure data for the lights to the control system via the two-way data interface between the lights and the control system associated with the at least one light.~~

42. (Currently Amended) A system of claim 38, ~~wherein the control system communicates data with the light system and the data is selected from the group consisting of control data, temperature data, performance data, performance history data, light histogram data, intensity~~

data, color temperature data, on-off status data, color data, time data, total-on-time data, light show data, lighting effect data, alarm data, maintenance data, power-usage data, system status data, customer-entered data, advertising data, branding data, communications data and thermal history data.

43. (Currently Amended) A system of claim 38, further comprising the at least one light, wherein the at least one light includes a plurality of lights disposed in a plurality of positions within an environment, and wherein the environment is a transportation environment.

44. (Currently Amended) A system of claim 43, wherein the environment is an aircraft cabin, further comprising providing an interface ~~[[of]]~~ between the ~~lighting~~ control system ~~[[to]]~~ and another ~~computer~~ system.

45. (Currently Amended) A system of claim 44, further comprising:
a facility for shielding an element of the ~~lighting~~ system to minimize emission of interfering signals.

46. (Currently Amended) A system of claim 44, wherein the other ~~computer~~ system is at least one of a steering system, a navigation system, a safety system, a sensor system, an alarm system, a maintenance system, a communications system ~~[[or]]~~ and an entertainment system.

47. (Currently Amended) A system of claim ~~[[38]]~~ 43, wherein the environment contains a plurality of seats, wherein the ~~light systems~~ plurality of lights are disposed to illuminate the environments of the seats.

48. (Currently Amended) A system of claim ~~[[38]]~~ 43, wherein the environment contains a corridor, wherein the ~~light systems~~ plurality of lights are disposed to illuminate at least one of the ceiling and the floor of the corridor.

49. (Currently Amended) A system of claim 38, further comprising: ~~a plurality of lights using the control system~~ the at least one light, wherein the at least one light is configured to provide

~~illumination of more than one color; wherein one available color of light is~~ including at least one of white light and another available color is non-white light, based on the addressed lighting control signal.

50. (Currently Amended) A system of claim 49, wherein the at least one light includes red, green and blue light sources, wherein the illumination includes the white light, and wherein the white light is generated produced by a combination of radiation generated by the red, green and blue light sources.

51. (Currently Amended) A system of claim 49, wherein the at least one light includes a white light source, wherein the illumination includes the white light, and wherein the white light is generated at least in part by [[a]] the white light source.

52. (Currently Amended) A system of claim 51, wherein the at least one light includes a second light source, and wherein a color temperature of the white light can be modified is determined by mixing light from a radiation generated by the white light source and the second light source.

53. (Currently Amended) A system of claim 52, wherein the second light source is ~~a light source~~ selected from the group consisting of a second white light source of a different color temperature than the first white light source, an amber source, a green source, a red source, a yellow source, an orange source, a blue source, and a UV source.

54. (Currently Amended) A system of claim 49, wherein ~~the lights comprise~~ at least one light comprises LEDs of red, green, blue and white colors.

55. (Currently Amended) A system of claim 49, wherein ~~the lights comprise~~ the at least one light comprises LEDs selected from the group consisting of red, green, blue, UV, amber, orange and white LEDs.

56. (Currently Amended) A system of claim 55, wherein the white LEDs include white LEDs of more than one color temperature.

57. (Currently Amended) A system of claim 49, ~~further comprising providing a secondary system for operating on the light output of the light system,~~ wherein the at least one light comprises onboard intelligence to generate the data provided by the at least one light.

58. (Currently Amended) A system of claim 57, wherein ~~the secondary system is selected from the group comprising an optic, a phosphor, a lens, a filter, fresnel lens, a mirror, and a reflective coating~~ the data generated by the onboard intelligence indicates at least a partial or imminent failure of the at least one light.

59. (Currently Amended) A system ~~for illuminating an environment,~~ comprising:
at least one light comprising at least one first LED configured to generate first radiation and at least one second LED configured to generate second radiation different from the first radiation; and

a lighting control system configured to generate a lighting control signal for controlling a plurality of lights using the control system the at least one light so as to provide illumination of more than one color; wherein one available color of light is including at least one of a white light color and another available color is a non-white light color, the control system further being configured to generate the lighting control signal based at least in part on data provided by the at least one light;

wherein the non-white color or a color temperature of at least some the white light color is modified determined by mixing light from a white source of light of a different color temperature particular amounts of the first radiation and the second radiation in response to the lighting control signal.

60. (Currently Amended) A system of claim 59, wherein the at least one light includes red, green and blue LEDs, wherein the illumination includes the white color, and wherein the white light color is generated produced by a combination of radiation generated by the red, green and blue light sources LEDs.

61. (Currently Amended) A system of claim 59, wherein the at least one first LED includes at least one white LED, wherein the illumination includes the white color, and wherein the white light color is generated at least in part by the at least one white light source LED.

62. (Currently Amended) A system of claim 61, wherein the at least one second LED includes at least one non-white LED, and wherein the color temperature of at least some the white light color is modified determined by mixing light from a second light source the first radiation and the second radiation.

63. (Currently Amended) A system of claim 62, wherein the at least one second light source LED is a light source selected from the group consisting of an amber source, a green source, a red source, a yellow source, an orange source, a blue source, and a UV source.

64. (Currently Amended) A system of claim ~~[[59]]~~ 61, wherein ~~the lights comprise LEDs of red, green, blue and white colors~~ the at least one second LED includes at least one second white LED having a color temperature different from the at least one first white LED.

65. (Currently Amended) A system of claim 59, wherein ~~the lights comprise LEDs selected from the group consisting of red, green, blue, UV, amber, orange and white~~ data provided by the at least one light is selected from the group consisting of control data, temperature data, performance data, performance history data, light histogram data, intensity data, color temperature data, on-off status data, color data, time data, total-on-time data, light show data, lighting effect data, alarm data, maintenance data, power-usage data, system status data, customer-entered data, advertising data, branding data, communications data and thermal history data.

66. (Currently Amended) A system of claim ~~[[65]]~~ 59, ~~wherein the white LEDs include LEDs of more than one color temperature~~ further comprising a connector coupled to the control system, wherein the at least one light is coupled to the connector, wherein the connector has an

address associated therewith, and wherein the control system is configured to generate the lighting control signal as an addressed lighting control signal that is addressed to the connector.

67. (Currently Amended) A system of claim 59, ~~further comprising providing a secondary system for operating on the light output of the light system, wherein the at least one light~~ comprises onboard intelligence to generate the data provided by the at least one light.

68. (Currently Amended) A system of claim 67, ~~wherein the secondary system is selected from the group comprising an optic, a phosphor, a lens, a filter, fresnel lens, a mirror, and a reflective coating the data generated by the onboard intelligence indicates at least a partial or imminent failure of the at least one light.~~

69. (Currently Amended) A system ~~[[of]]~~ for lighting an aircraft environment, comprising:
a control system for generating ~~[[a]]~~ lighting control signal signals for controlling a ~~lighting system that has a plurality of lights disposed in a plurality of positions within the aircraft environment, the control system configured to respond to signals from at least one other system of the aircraft environment and to generate lighting control signals in response to the signals from the at least one other system; and~~

~~a connector~~ connectors between the control system and a plurality of the lights; ~~and an address facility of the connector, the connectors having address facilities proximal lights of the plurality of lights associated therewith,~~

wherein the lighting control signals are addressed to the connectors as addressed lighting control signals, wherein [[a]] at least one light, when connected to the addressed a connector of the plurality of connectors, responds to an addressed lighting control signal of the lighting control signals that is addressed to that connector, and wherein the control system is configured to generate the lighting control signal in response to the signals from the at least one other system of the aircraft environment and/or data supplied by the at least one light.

70. (Currently Amended) A system of claim 69, wherein the ~~lights comprise~~ at least one light comprises LEDs selected from the group consisting of red, green, blue, amber, UV, orange and white LEDs.

71. (Currently Amended) A system of claim 69, wherein the other system of the aircraft includes an environmental system, and wherein the control system has an interface to [[an]] the environmental system of the aircraft.

72. (Previously presented) A system of claim 69, wherein the other system is selected from the group including a navigation system, a safety system, an alarm system, a maintenance system, a communications system and an entertainment system.

73. (Currently Amended) A system of claim 69, wherein the at least one light is disposed on an aircraft environment selected from the group consisting at least one of [[the]] an exterior, [[the]] a cabin interior, a ceiling, a floor, a cockpit, a bathroom, a kitchen, a corridor, an aisle, and a seat of the aircraft environment.

74. (Currently Amended) A system of claim 69, ~~further comprising a facility for providing lighting control using more than one~~ wherein the environmental system includes a plurality of environmental systems, and wherein the control system is configured to respond to signals from the plurality of environmental systems.

75. (Currently Amended) A system of claim 74, ~~further comprising a facility for prioritizing lighting commands from different lighting system control elements,~~ wherein the control system is configured to prioritize the signals from different environmental systems of the plurality of environmental systems and generate the addressed lighting control signal in response to the prioritized signals.

76. (Currently Amended) A method ~~of providing illumination control for an environment,~~ comprising:

disposing in [[the]] an environment a plurality of intelligent connectors, each intelligent connector being and capable of handling addressable associated with an address;

addressing lighting data to the intelligent connectors from a lighting control system and of based at least in part on the address associated with each intelligent connector providing a two-way data interface between a plurality of light units and the control system; and

controlling [[the]], via the lighting data addressed to the intelligent connectors, at least one light of a plurality of light units using the control system lights coupled to the intelligent connectors so as to provide illumination of more than one color; wherein one available color of light is including at least one of a white light color and another available color is a non-white light; color, wherein;

the at least one light of the plurality of lights comprises at least one first LED configured to generate first radiation and at least one second LED configured to generate second radiation different from the first radiation;

at least a first intelligent connector of the plurality of intelligent connectors, to which the at least one light is coupled, provides a two-way data interface between the control system and the at least one light; and

the non-white color or a color temperature of at least some the white light is modified color generated by the at least one light is determined by mixing light from a white source of light of a different color temperature particular amounts of the first radiation and the second radiation in response to the lighting data.

77. (Currently Amended) A method of claim 76, ~~wherein the each intelligent connector is located on a head end of a cable~~ further comprising generating the lighting data based at least in part on data provided by the at least one light via the two-way data interface.

78. (Currently Amended) A method of claim 76, wherein the environment includes an aircraft in which the plurality of light units are disposed, wherein [[the]] each intelligent connector is located proximally to [[the]] a seat of an aircraft passenger, and wherein the method further comprises passing data on passenger activity through the two-way data interface.

79. (Currently Amended) A method of claim 78, ~~wherein the lighting~~ further comprising communicating signals to the control system is in communication with from a non-lighting system of the aircraft, wherein the lighting control system being is configured to respond to the

signals from the non-lighting system to provide ~~illumination control responsive to the non-lighting system~~ the lighting data.

80. (Original) A method of claim 79, wherein the non-lighting system is an entertainment system.

81. (Original) A method of claim 79, wherein the non-lighting system is a communications system.

82. (Original) A method of claim 79, wherein the non-lighting system is a safety system.

83. (Currently Amended) A method of claim 76, wherein ~~the environment is a transportation environment~~ the at least one light is an interchangeable light that is not required to recognize the address associated with the first intelligent connector.

84. (Currently Amended) A method of claim 83, ~~further comprising: providing~~ wherein the at least one lighting unit having light includes LEDs having at least one of red, green, blue and white colors.

85. (Currently Amended) A method of claim 84, wherein the ~~lighting unit~~ at least one light includes a white ~~light~~ color mode and a non-white ~~light~~ color mode.

86. (Currently Amended) A method of claim 85, wherein in the white ~~light~~ color mode the ~~lighting unit~~ at least one light is capable of producing different color temperatures of the white light color.

87. (Currently Amended) A method of claim 84, further comprising:
providing control software for controlling ~~lighting signals sent~~ the lighting data addressed to the addressable intelligent connectors.

88. (Currently Amended) A method of claim 87, wherein the control software ~~includes a facility for associating lighting control signals with data of~~ is configured such that the lighting data is based at least in part on information relating to the environment.

89. (Currently Amended) A system ~~for providing illumination control for an environment,~~
comprising:

at least one light comprising at least one first LED configured to generate first radiation and at least one second LED configured to generate second radiation different from the first radiation;

a control system configured to generate lighting data to control the at least one light; and
a plurality of at least one intelligent connectors disposed in the environment, each intelligent connector being to which the at least one light is coupled, the at least one intelligent connector being associated with an address and capable of handling addressable the lighting data that is addressed to the at least one intelligent connector from a lighting the control system and of, the at least one intelligent connector further providing a two-way data interface between a plurality of light units the at least one light and the control system; controlling the plurality of light units using,

wherein the control system is configured to control the at least one light via the lighting data to provide illumination of more than one color; wherein one available color of light is including at least one of a white light color and another available color is a non-white light; color, and wherein the non-white color or a color temperature of at least some the white light is modified color is determined by mixing light from a white source of light of a different color temperature particular amounts of the first radiation and the second radiation in response to the lighting data.

90. (Currently Amended) A system of claim 89, ~~wherein the intelligent connector is located on a head end of a cable~~ wherein the control system is configured to generate the lighting data based at least in part on data provided by the at least one light via the two-way data interface.

91. (Currently Amended) A system of claim 89, wherein the at least one intelligent connector is located proximally to ~~[[the]]~~ a seat of a passenger in an aircraft passenger.

92. (Currently Amended) A system of claim 91, wherein the ~~lighting~~ control system is in communication with a non-lighting system of the aircraft, the ~~lighting~~ control system being configured to respond to signals from the non-lighting system to provide ~~illumination control responsive to the non-lighting system~~ the lighting data.

93. (Original) A system of claim 92, wherein the non-lighting system is an entertainment system.

94. (Original) A system of claim 92, wherein the non-lighting system is a communications system.

95. (Original) A system of claim 92, wherein the non-lighting system is a safety system.

96. (Currently Amended) A system of claim 89, wherein ~~the environment is a transportation environment~~ the at least one light is an interchangeable light that is not required to recognize the address associated with the at least one intelligent connector.

97. (Currently Amended) A system of claim 96, ~~further comprising:~~ wherein the at least one ~~lighting unit adapted to have~~ light includes LEDs having at least one of red, green, blue and white colors.

98. (Currently Amended) A system of claim 97, wherein the ~~lighting unit~~ at least one light includes a white ~~light~~ color mode and a non-white ~~light~~ color mode.

99. (Currently Amended) A system of claim 98, wherein in the white ~~light~~ color mode the ~~lighting unit~~ at least one light is capable of producing different color temperatures of the white ~~light~~ color.

100. (Currently Amended) A system of claim 97, further comprising:

control software executed by the control system for controlling ~~lighting signals sent the~~
lighting data addressed to the addressable connectors at least one intelligent connector.

101. (Currently Amended) A system of claim 100, wherein the control software
~~includes a facility for associating lighting control signals with data of the~~ is
configured such that the lighting data is based at least in part on information
relating to an environment in which the at least one light is disposed.